

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Wed Jun 06 18:11:22 EDT 2007

=====

Application No: 10562241 Version No: 1.0

Input Set:

Output Set:

Started: 2007-06-05 18:52:48.539

Finished: 2007-06-05 18:52:48.572

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 33 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 2

Actual SeqID Count: 2

SEQUENCE LISTING

<110> Bayer AG, BHC

<120> Isolated photoprotein bolinopsin, and the use thereof

<130> Le A 36 792

<140> 10562241

<141> 2007-06-05

<160> 2

<170> PatentIn version 3.1

<210> 1

<211> 621

<212> DNA

<213> Bolinopsis infundibulum

<400> 1

atgcctctag	acgagaccaa	caacgaaagc	tatagatggc	tgagaagtgt	gggtaacgat	60
tggcagtttg	atgtcgagga	cgttcacacct	aaacagctta	gtcggctcta	caagagattc	120
gacaccttcg	atctagacag	tgacggctcgt	atggacatgg	acgagatcct	gtactggccc	180
gacagaatga	ggcagcttgt	gaacgcttct	gacgaacagg	tcgagaagat	gagggctgct	240
tgctacacct	tcttccacaa	caaaggagtg	gatccagaaa	agggactcct	cagagacgac	300
tgggttgagg	ctaacagagt	atttgcctgag	gctgaaagag	agaggaacg	acgtggcatg	360
ccctccttga	ttggtctttt	gtcagacgct	tactacgatg	tcctggatga	tgacggtgat	420
gggtactgttg	atggtgatga	actcaaaacc	atgatgaagg	cttttgatgt	gccccaggag	480
gctgcctaca	ccttctttaa	gaaagctgac	acggataata	gtggaaaact	ggagagaagc	540
gaactggtcc	atctcttcag	aaagttctgg	atggaatcct	acgatcctca	gtgggacggt	600
gtctacgctt	acaaatatta	a				621

<210> 2

<211> 206

<212> PRT

<213> Bolinopsis infundibulum

<400> 2

Met	Pro	Leu	Asp	Glu	Thr	Asn	Asn	Glu	Ser	Tyr	Arg	Trp	Leu	Arg	Ser
1			5					10					15		
Val	Gly	Asn	Asp	Trp	Gln	Phe	Asp	Val	Glu	Asp	Val	His	Pro	Lys	Gln
		20						25					30		
Leu	Ser	Arg	Leu	Tyr	Lys	Arg	Phe	Asp	Thr	Phe	Asp	Leu	Asp	Ser	Asp
		35					40					45			
Gly	Arg	Met	Asp	Met	Asp	Glu	Ile	Leu	Tyr	Trp	Pro	Asp	Arg	Met	Arg
	50				55						60				
Gln	Leu	Val	Asn	Ala	Ser	Asp	Glu	Gln	Val	Glu	Lys	Met	Arg	Ala	Ala
65				70						75				80	
Cys	Tyr	Thr	Phe	Phe	His	Asn	Lys	Gly	Val	Asp	Pro	Glu	Lys	Gly	Leu
			85					90					95		
Leu	Arg	Asp	Asp	Trp	Val	Glu	Ala	Asn	Arg	Val	Phe	Ala	Glu	Ala	Glu
		100						105					110		
Arg	Glu	Arg	Glu	Arg	Arg	Gly	Met	Pro	Ser	Leu	Ile	Gly	Leu	Leu	Ser
	115					120						125			
Asp	Ala	Tyr	Tyr	Asp	Val	Leu	Asp	Asp	Asp	Gly	Asp	Gly	Thr	Val	Asp
130						135						140			

Val	Asp	Glu	Leu	Lys	Thr	Met	Met	Lys	Ala	Phe	Asp	Val	Pro	Gln	Glu
145					150					155					160
Ala	Ala	Tyr	Thr	Phe	Phe	Lys	Lys	Ala	Asp	Thr	Asp	Asn	Ser	Gly	Lys
				165					170					175	
Leu	Glu	Arg	Ser	Glu	Leu	Val	His	Leu	Phe	Arg	Lys	Phe	Trp	Met	Glu
			180					185					190		
Ser	Tyr	Asp	Pro	Gln	Trp	Asp	Gly	Val	Tyr	Ala	Tyr	Lys	Tyr		
		195					200					205			